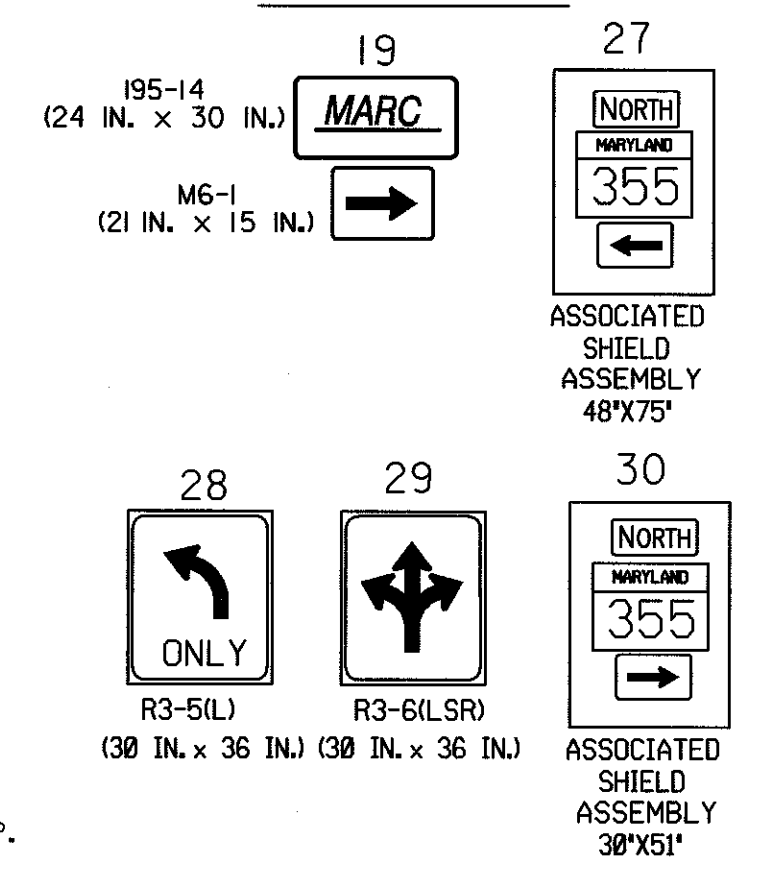


MD 355 is considered to run
in a North/South direction.

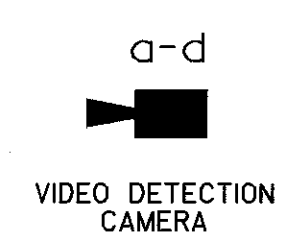
NOTES:

1. PROPOSED SIGNAL MUST BE INSTALLED PRIOR TO WIDENING.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLES AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE PAVEMENT MARKINGS.
4. UTILITIES SHOWN ARE SCHEMATIC ONLY AND MAY NOT REPRESENT THE LOCATION OF ALL UTILITIES PRESENT. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF ALL UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALERT THE SHA PROJECT ENGINEER IMMEDIATELY IF HE/SHE PERCEIVES THAT A CONFLICT MAY EXIST.
5. ALL SIGNAL HEADS SHALL BE BLACK FACED.
6. EXISTING HANDHOLES WITHIN THE ROADWAY WIDENING SHALL BE REMOVED AS PART OF THE EXCAVATION. EXISTING WIRING SHALL BE PULLED BACK TO THE LOWE'S LANE INTERSECTION PRIOR TO HANDHOLE REMOVAL.
7. ALL SIGNAL CABINET WORK SHALL BE PERFORMED BY SHA SIGNAL SHOP.
8. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH SHA.
9. EXISTING SIGNAL EQUIPMENT EXCEPT THE CONTROLLER UNIT SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON THE COMPLETION OF THE SIGNAL CONSTRUCTION.
10. MAXIMUM WIDTH OF HANDHOLE SPACING SHALL BE 190 FT.
11. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILES GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF THE SIGNAL EQUIPMENT.

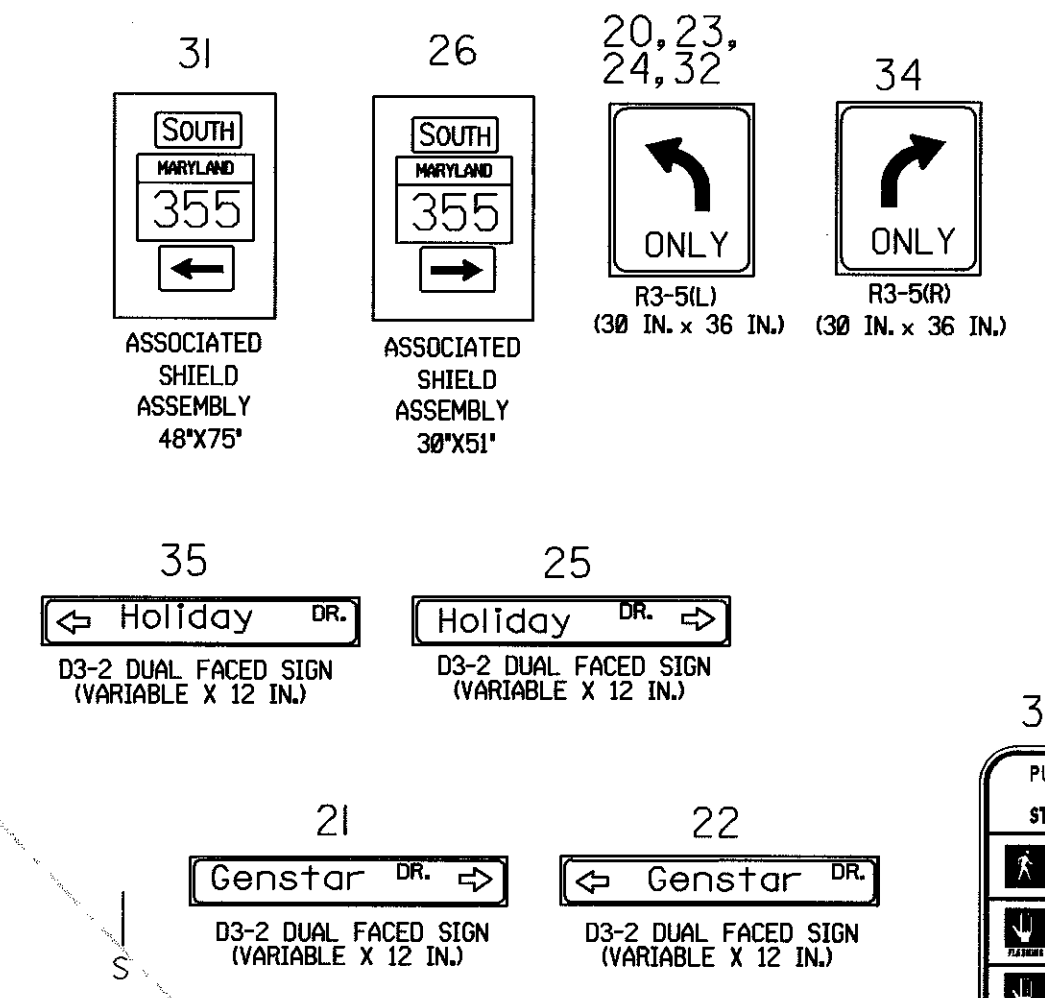
EXISTING SIGNS



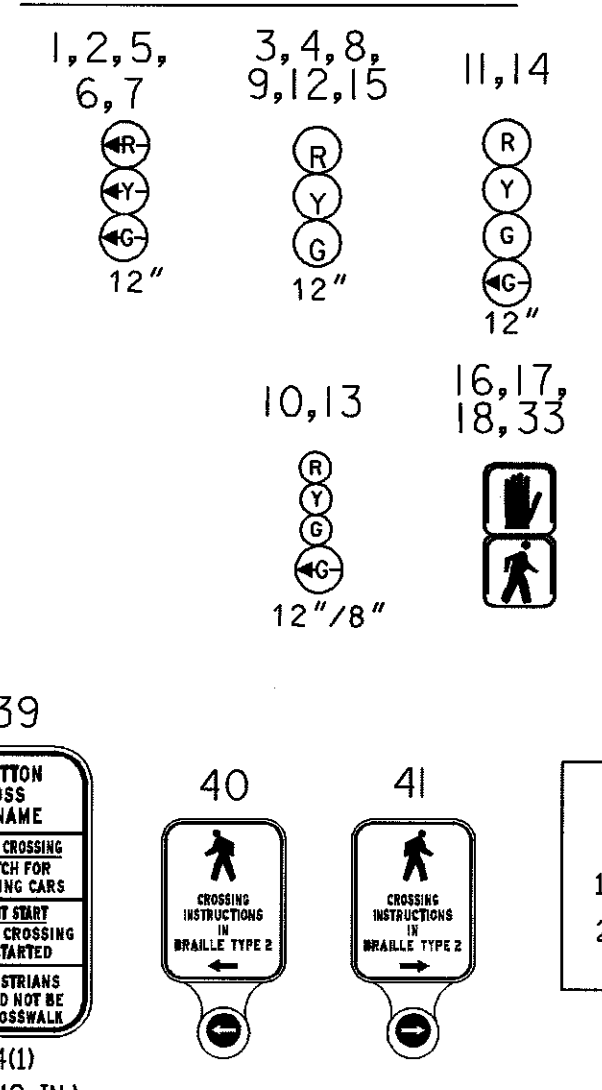
PROPOSED EQUIPMENT



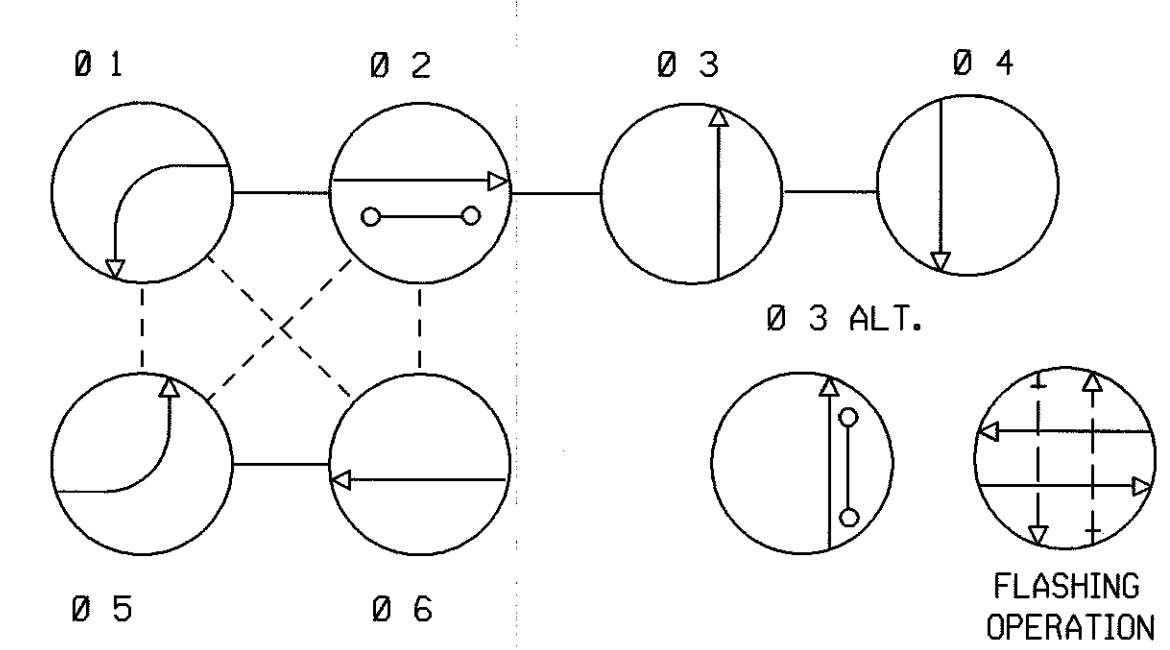
PROPOSED SIGNS



PROPOSED SIGNALS

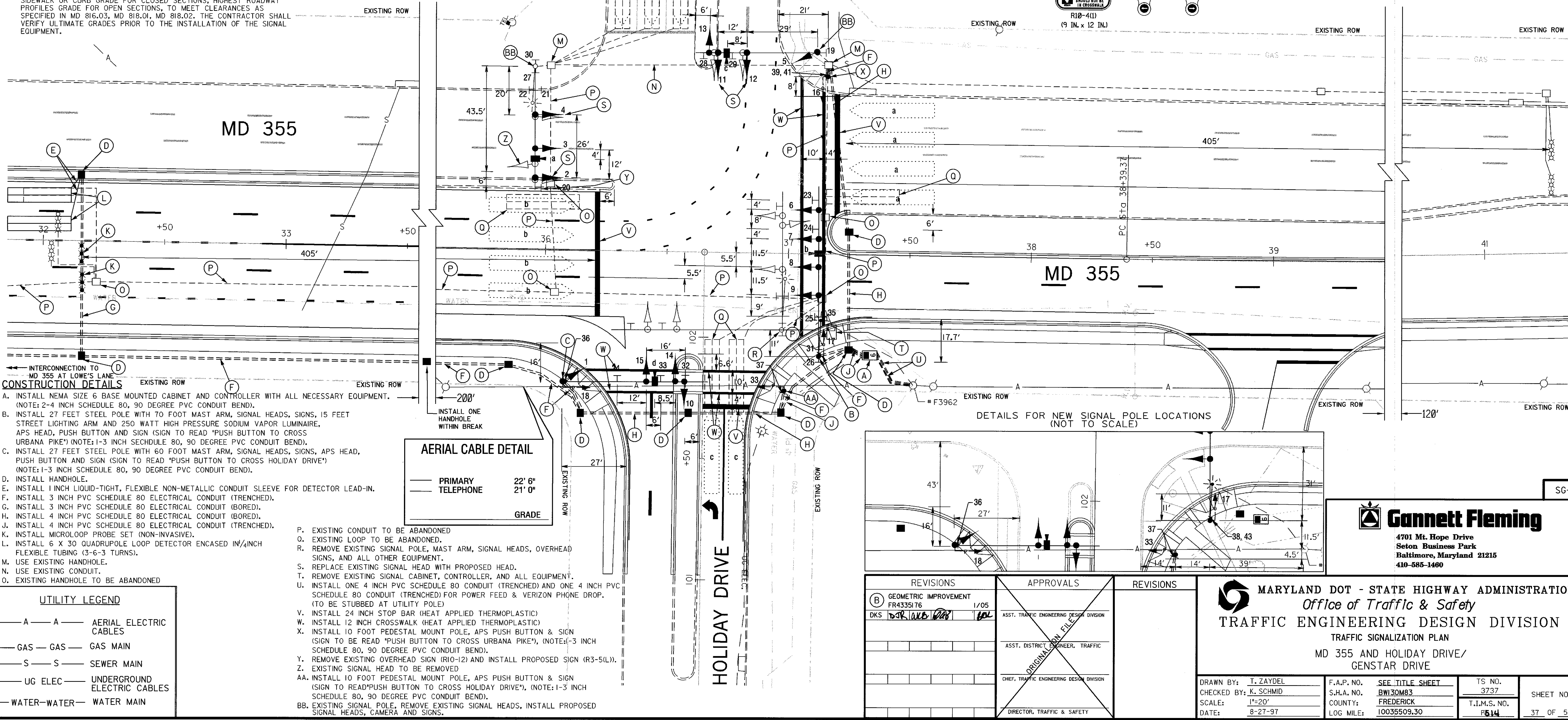


NEMA PHASING



PHASING NOTES:

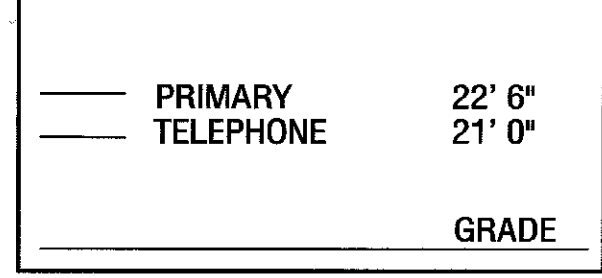
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.



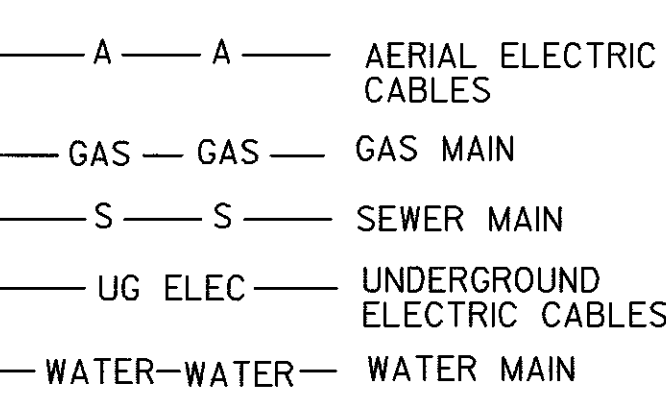
CONSTRUCTION DETAILS

- A. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. (NOTE: 2-4 INCH SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND).
- B. INSTALL 27 FEET STEEL POLE WITH 70 FOOT MAST ARM, SIGNAL HEADS, SIGNS, 15 FEET STREET LIGHTING ARM AND 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE, APS HEAD, PUSH BUTTON AND SIGN (SIGN TO READ "PUSH BUTTON TO CROSS URBANA PIKE") (NOTE: 1-3 INCH SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND).
- C. INSTALL 27 FEET STEEL POLE WITH 60 FOOT MAST ARM, SIGNAL HEADS, SIGNS, APS HEAD, PUSH BUTTON AND SIGN (SIGN TO READ "PUSH BUTTON TO CROSS HOLIDAY DRIVE") (NOTE: 1-3 INCH SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND).
- D. INSTALL HANDHOLE.
- E. INSTALL 1 INCH LIQUID-TIGHT, FLEXIBLE NON-METALLIC CONDUIT SLEEVE FOR DETECTOR LEAD-IN.
- F. INSTALL 3 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- G. INSTALL 3 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
- H. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
- I. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- J. INSTALL MICROLOOP PROBE SET (NON-INVASIVE).
- K. INSTALL 6 X 30 QUADRUPOLE LOOP DETECTOR ENCASED IN 1/4 INCH FLEXIBLE TUBING (3-6-3 TURNS).
- L. USE EXISTING HANDHOLE.
- M. USE EXISTING CONDUIT.
- N. EXISTING HANDHOLE TO BE ABANDONED.

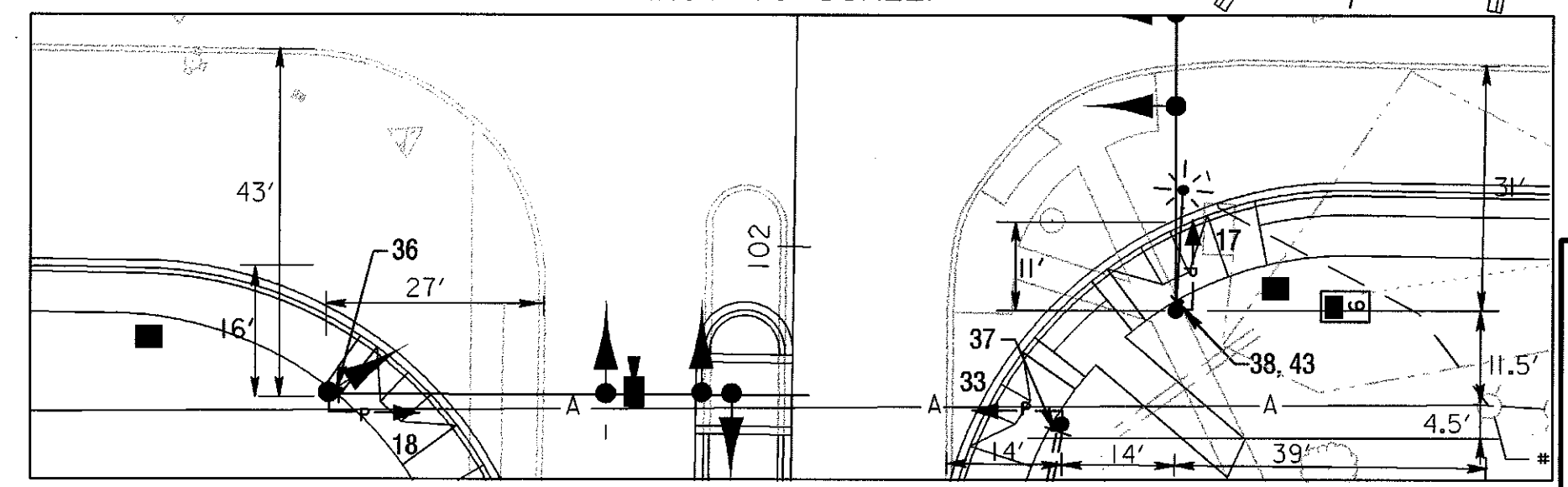
AERIAL CABLE DETAIL



UTILITY LEGEND



DETAILS FOR NEW SIGNAL POLE LOCATIONS (NOT TO SCALE)



| REVISIONS | APPROVALS | REVISIONS |
|--|--|-----------|
| (B) GEOMETRIC IMPROVEMENT FR4335176 DKS [Signature] 1/05 | ASST. TRAFFIC ENGINEERING DESIGN DIVISION [Signature] ASST. DISTRICT ENGINEER, TRAFFIC [Signature] CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION [Signature] DIRECTOR, TRAFFIC & SAFETY | |

Gannett Fleming
4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 355 AND HOLIDAY DRIVE/
GENSTAR DRIVE

| | | |
|-----------------------|----------------------------|--------------------|
| DRAWN BY: T. ZAYDEL | F.A.P. NO. SEE TITLE SHEET | TS NO. 3737 |
| CHECKED BY: K. SCHMID | S.H.A. NO. BW130M83 | T.I.M.S. NO. 1514 |
| SCALE: 1"=20' | COUNTY: FREDERICK | SHEET NO. 37 OF 52 |
| DATE: 8-27-97 | LOG MILE: 10035509.30 | |